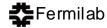
Recycler BPM Calibration Application

- Current Status
- Data so far
- Where we go from here

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Notes:

Current Status

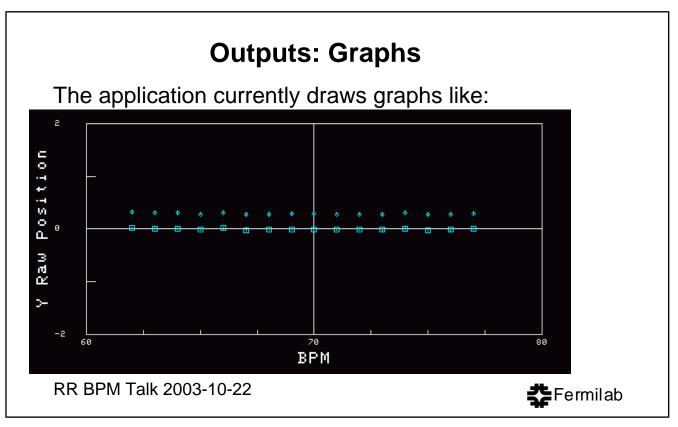
- Prototype application at R57
 controlls signal generator
 collects closed orbit data
- Has sucessfully been used at MI50
- Currently outputs
 - o graphs
 - spreadsheet data

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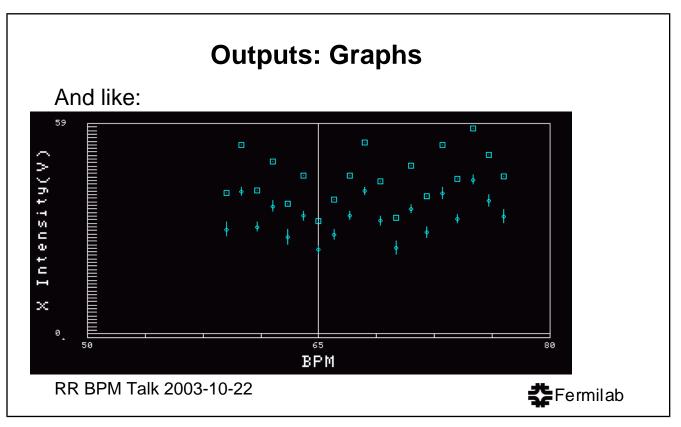
Notes:

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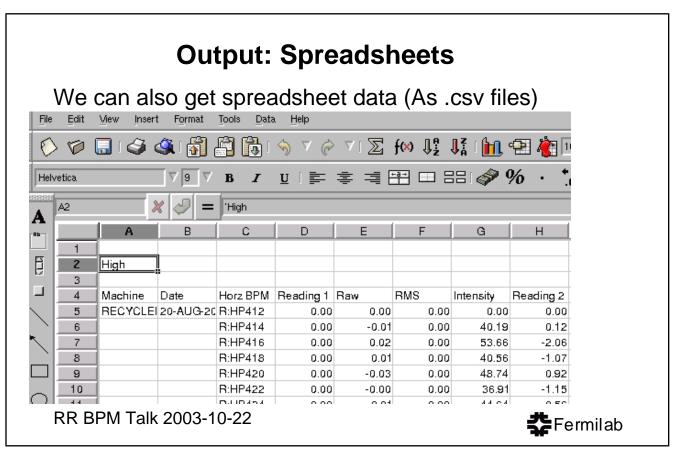


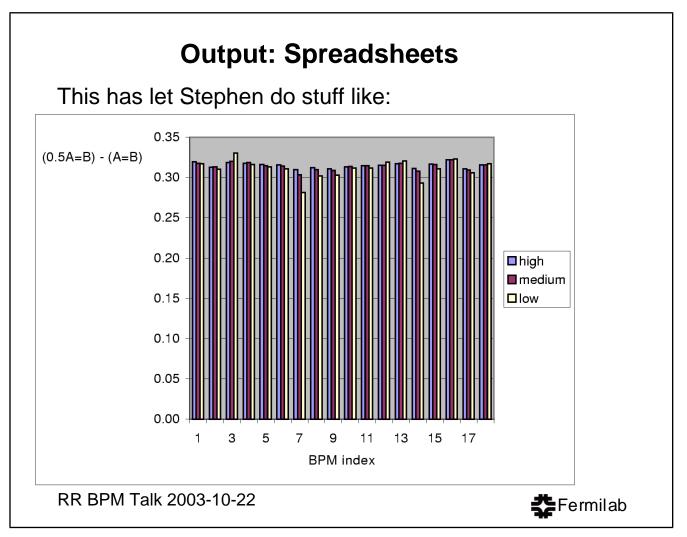
- · average unscaled position for two passes is plotted
- boxes show A=B
- diamonds show 0.5*A = B
- vertical lines show scaled RMS error individual problem BPMs easy to spot:
 - reversed channels (diamond on wrong side)
 shorted channel (diamond too near center)

 - high noise (wide error bar)



- average unscaled position for two passes is plotted
- boxes show A=B
- diamonds show 0.5*A = B
 vertical lines show scaled RMS error
- shows variance in recieved signal at different BPMS from calibration signal





Data so far

- Spreadsheet data has been most interesting; allows comparing intensities
- electrical offset may be intensity sensitive (perhaps need a (kA-B)/(kA+B) correction?)
- Application cannot set calibration constants need electrical vs physical separation

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Notes:

Where we go from here

Update of Application

- Run all 3 intensities
- Log results in database

- Save results in spreadsheet
 Display all BPMs at one time
 Display single BPM over time
 Better graph labelling

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Notes: Notes on slide.

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